COATING FORMING METHOD AND COATING FORMING MATERIAL, AND ABRASIVE COATING FORMING SHEET

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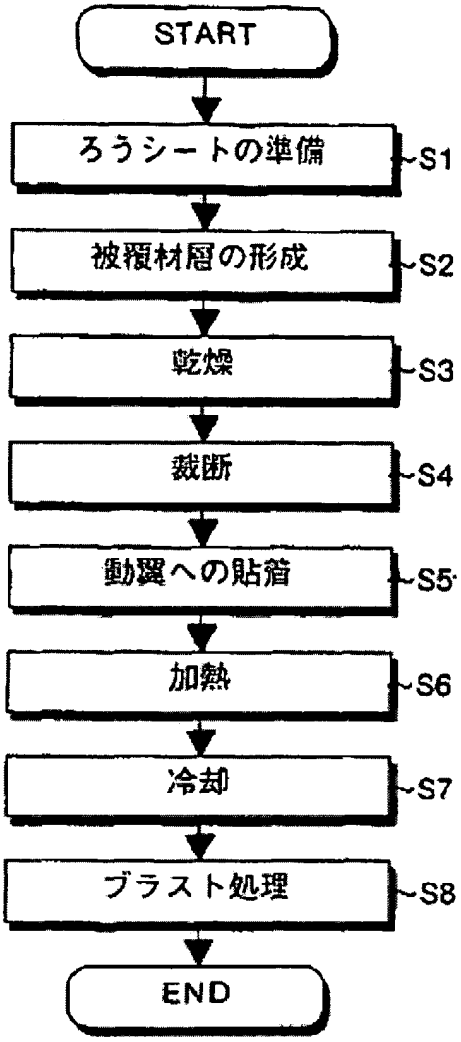
Abstract of **WO02097160**

First, a wax sheet is provided (step S1). The wax sheet consists of a wax material layer, an adhesive material layer and release paper. The wax material layer consists of a wax material. Next, a coating material layer is laid on the wax material layer (step S2). The coating material layer consists of a mixture of coating particles and a binder. Coating particles use McrAlY particles and abrasive grains (cubic system boron nitride particles, etc.). Next, the coating material layer is dried (step S3), and the wax sheet is cut (step S4), for bonding to a rotor blade (step S5). Next, the rotor blade is heated (step S6) to melt the wax material. The wax material is wetted as an McrAlY particle-surrounding liquid phase, and is then diffused by a heat-treat retaining process. Next, a solidified layer is formed by cooling (step S7). The solidified layer is blasted (step S8) and cubic system boron nitride particles are allowed to protrude to complete an abrasive coating.



S1...PROVIDING WAX SHEET
S2...FORMING COATING MATERIAL LAYER
S3...DRYING
S4...CUTTING
S5...BONDING TO ROTOR BLADE
S6...HEATING
S7...COOLING
S8...BLASTING